

### ABSTRACT

Osteogenic sponge compositions having enhanced osteoinductive properties for use in bone repair are described. The compositions include a quickly resorbable porous carrier, a more slowly resorbed mineral scaffold, and an osteogenic factor, preferably a bone morphogenetic protein. The compositions enable increased osteoinductive activity while retaining a reliable scaffold for the formation of new bone at an implant site. Methods for therapeutic use of the compositions are also described.

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